

KEY VOCABULARY

Force

A **push or a pull**

Gravity

A force that **pulls objects towards the centre of the earth**

Friction

A force caused by **two surfaces touching each other**

Air Resistance

A kind of friction that **slows objects down when they travel through air**

Water Resistance

A kind of friction that **slows objects down when they travel through water**

Buoyancy

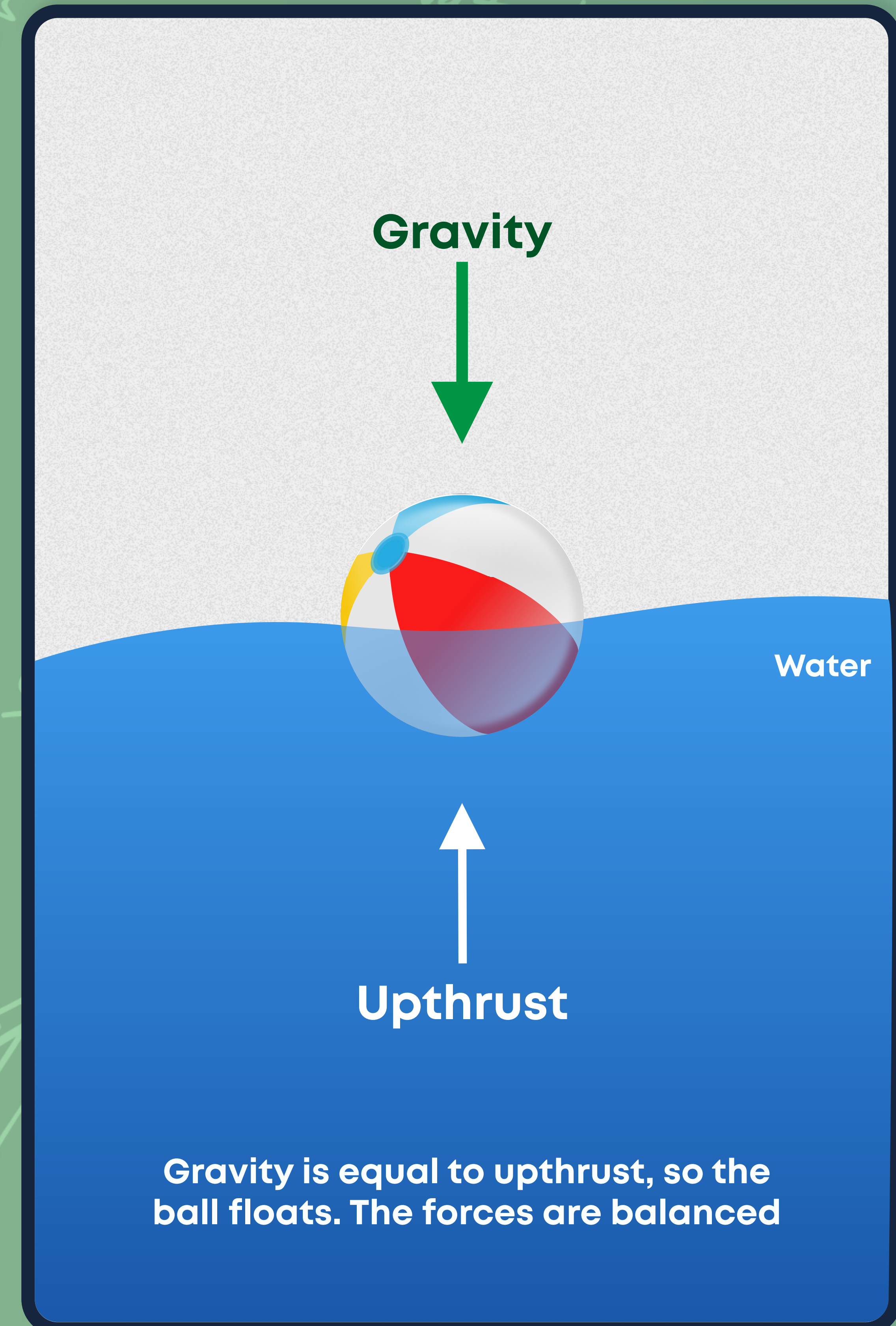
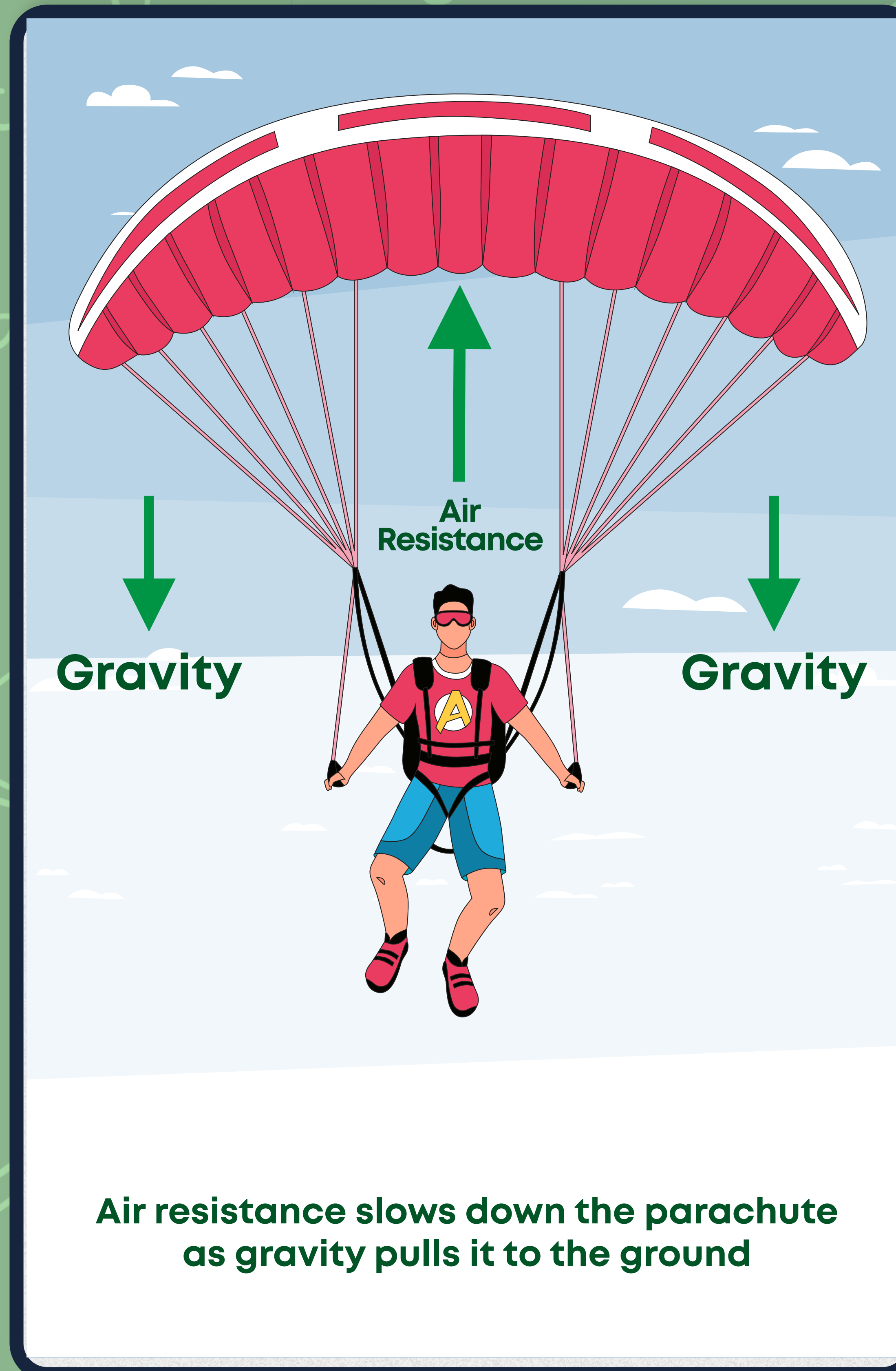
An object's **ability to float**

Upthrust

A force that **pushes objects up** in water or air

Streamline

To shape an object in a way that **reduces the effect of air resistance or water resistance**



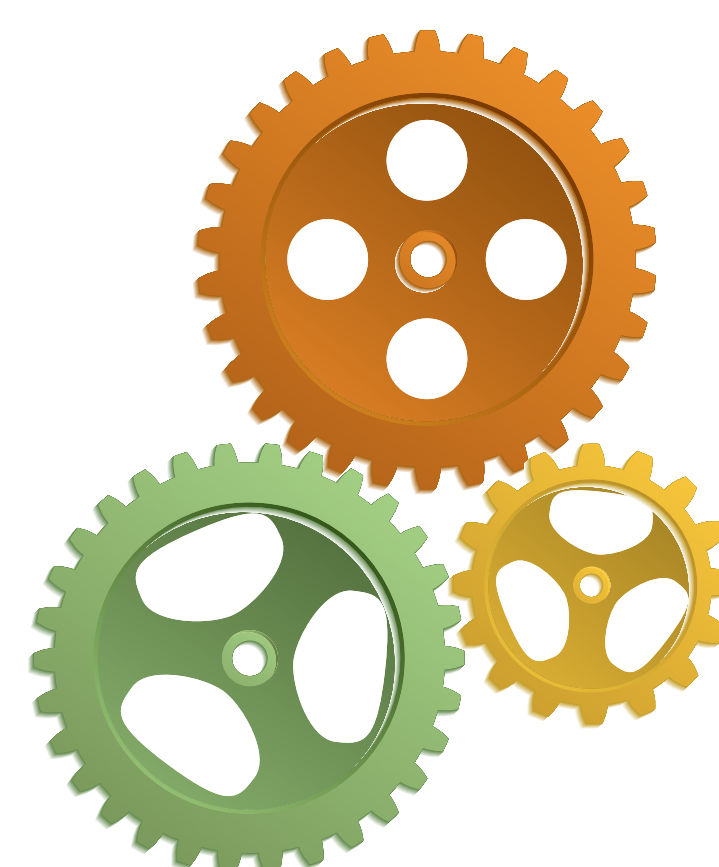
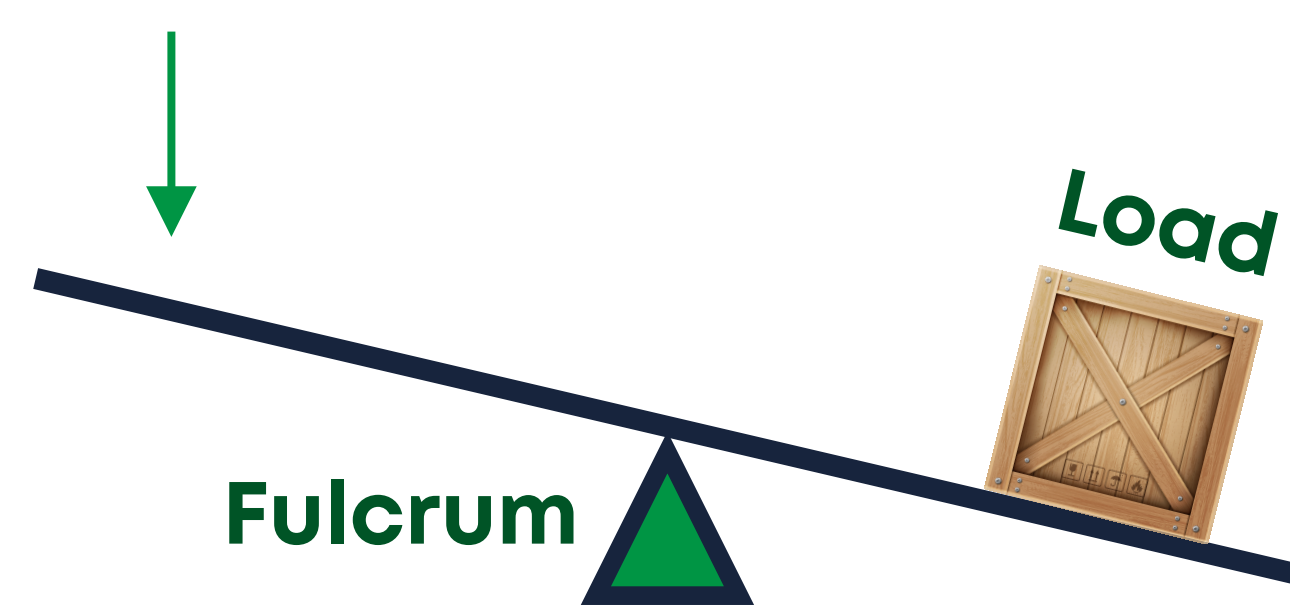
Pulley

Lever

Gear



Force



Sir Issac Newton
(1643–1727)

A scientist and mathematician who studied forces and helped us to understand how gravity works on earth. The scientific study of energy and forces is called physics. Physics helps us to understand how the universe behaves.

